PAEDIATRICS EVIDENCE UPDATE

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PRIMARY RESEARCH ARTICLES

The following journal articles are available from the Library and Knowledge Service electronically or in print. Please follow links to access full text online, contact the library to order copies.

**Higher Vitamin D Dosage Does Not Improve Infant Outcomes**
*JAMA Pediatr* 2018 May 29; [e-pub].
[A vitamin D3 supplemental dose of up to 1200 IU in infants did not lead to increased bone strength or to decreased infection incidence. Daily supplementation with 400 IU vitamin D3 seems adequate in maintaining vitamin D sufficiency in children younger than 2 years]

**Incidence, risk factors, and outcomes of retinal detachment after pediatric cataract surgery.**
Agarkar S. *Ophthalmology* 2018;125(1):36-42.
[The purpose of this study was to report the incidence of, and to estimate the long-term risk and predisposing factors and the surgical outcomes for, retinal detachment (RD) after pediatric cataract surgery.]

**Does Vitamin D Prevent Respiratory Complications in Children with Sickle Cell Disease?**
*Blood Adv* 2018 May 8; 2:969
In a randomized trial, respiratory illnesses decreased by over 50% in children receiving monthly, oral vitamin D supplementation for 2 years.

**Pediatric Patient-Centered Transitions From Hospital to Home: Improving the Discharge Medication Process.**
*Hospital Pediatrics* 2017;[December]:10.1542/hpeds.2017-0053. Published on 19/4/2018
[By using an engaged interprofessional team, they optimized use of their on-site outpatient pharmacy and increased the percentage of pediatric patients leaving the hospital with new discharge medications in hand to >80%]

**Propranolol Safety for Hemangioma in Infants and Toddlers**
*Pediatrics* 2018 Jun; 141:e20173783
Oral propranolol was generally safe when given to children aged <3 years, but areas of concern remain.

**Road to Home Program: A Performance Improvement Initiative to Increase Family and Nurse Satisfaction With the Discharge Education Process for Newly Diagnosed Pediatric Oncology Patients.**
Wilson Smith MG. *Journal of Pediatric Oncology Nursing* 2018;[April]:10.1177/1043454218767872. Published on 19/4/2018

**The Effect of Language on the Discharge Process in a Pediatric Emergency Department.**
*Journal of Immigrant and Minority Health* 2017;19(6):1397-1403. Published on 18/4/2018

**Pediatric admissions that include intensive care: a population-based study.**
Ibiebele I. *BMC Health Services Research* 2018;18(1):264. Published on 12/4/2018

**Does specialist physician supply affect pediatric asthma health outcomes?**
Filler G. *BMC Health Services Research* 2018;18(1):247. Published on 8/4/2018

**Stepped Care Interpersonal Psychotherapy Treatment for Depressed Adolescents: A Pilot Study in Pediatric Clinics.**
Mufson L. *Administration and Policy in Mental Health and Mental Health Services Research* 2018;45(3):417-431. Published on 4/4/2018

**Effect of a Pediatric Early Warning System on All-Cause Mortality in Hospitalized Pediatric Patients: The EPOCH Randomized Clinical Trial.**
Parshuram CS. *JAMA* 2018;319(10):1002-1012. Published on 26/3/2018

**Outcomes of very high C-reactive protein levels in paediatric practice.**
Paul SP. *British Journal of Nursing* 2018;27(1):51-51. Published on 20/1/2018
Clinical Questions of the Month (Click on question to view answer)

How does glycerol compare with placebo for people with acute bacterial meningitis treated with antibiotics?

How does propofol compare with inhalation anesthetics for achieving deliberate hypotension in people undergoing functional endoscopic sinus surgery?

In preterm and/or low birth weight infants, how does plastic wrap or bag compare with routine care for preventing hypothermia?

New and Updated Cochrane Systematic Reviews (Click on topics to view)

Early planned removal versus expectant management of peripherally inserted central catheters to prevent infection in newborn infants
Adrienne Gordon, Mark Greenhalgh, William McGuire. Online Publication Date: June 2018

Protein supplementation of human milk for promoting growth in preterm infants
Emma A Amissah, Julie Brown, Jane E Harding. Online Publication Date: June 2018

Neonatal interventions for preventing cerebral palsy: an overview of Cochrane Systematic Reviews
Emily Shepherd, Rehana A Salam, Philippa Middleton, Shanshan Han, Maria Makrides, Sarah McIntyre, Nadia Badawi, Caroline A Crowther. Online Publication Date: June 2018

Formula versus donor breast milk for feeding preterm or low birth weight infants
Maria Quigley, Nicholas D Embleton, William McGuire
Online Publication Date: June 2018

Fat supplementation of human milk for promoting growth in preterm infants
Emma A Amissah, Julie Brown, Jane E Harding
Online Publication Date: June 2018

Videolaryngoscopy versus direct laryngoscopy for tracheal intubation in neonates
Krithika Lingappan, Jennifer L Arnold, Caraciolo J Fernandes, Mohan Pammi. Online Publication Date: June 2018

Lower versus higher oxygen concentrations titrated to target oxygen saturations during resuscitation of preterm infants at birth
Kei Lui, Lisa J Jones, Jann P Foster, Peter G Davis, See Kwee Ching, Ju Lee Oei, David A Osborn
Online Publication Date: May 2018

Paracetamol (acetaminophen) for patent ductus arteriosus in preterm or low birth weight infants
Arne Ohlsson, Prakashkumar S Shah. Online Publication Date: April 2018

SYSTEMATIC REVIEWS FROM OTHER SOURCES
Systematic review of pediatric health outcomes associated with childhood adversity.
Oh DL. BMC Pediatrics 2018;18:83. Published on 9/3/2018

Use of topical therapies for pediatric psoriasis: A systematic review.

The impact of pediatric mental health care provided outpatient, primary care, community and school settings on emergency department use – a systematic review.
Kirkland SW. Child and Adolescent Mental Health 2018;23(1):4-13.

Transition of adolescents with pediatric-onset hepatobiliary diseases: Systematic review of literature
Journal of Pediatric Gastroenterology and Nutrition; Apr 2018; vol. 66 ; p. 749-750

Multifarious diagnostic possibilities of the S100 protein family: predominantly in pediatrics and neonatology.
World journal of pediatrics : WJP; Jun 2018

BOOKS
New book(s) from the Library. [Click here to view]
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GUIDELINES
The following new guidance has recently been published:

PIER (Paediatric Innovation, Education and Research Network)
[The PIER guidelines have been created collaboratively with ratification through the relevant regional clinical network. They represent the views of the relevant clinical network and have been produced after consideration of the available evidence in conjunction with local expertise. Governance of these guidelines is managed by University Hospital Southampton]

Reviewing and Assessing Service Redesign and/or Change Proposals: RCN guidance.
Royal College of Nursing (RCN);2018.
[Service redesign may be required to improve patient pathways, move care out of hospitals closer to patients’ homes, maximise efficiency or a combination of all these factors. This guidance is intended to assist those responsible for undertaking the process of reviewing and assessing proposals for service redesign and change.] Freely available online

Guidelines for the use of hydroxycarbamide in children and adults with sickle cell disease.
British Society for Haematology;2018.
[This guideline aims to outline the current evidence for specific indications and to provide clinician aids for consultation and monitoring of hydroxycarbamide. This will enable joint decision-making between clinicians and patients and will improve equity of access to the drug.] Freely available online

Supporting children’s nurses working outside of designated children’s wards: Guidance for clinical professionals and managers of children’s services.
Royal College of Nursing (RCN);2018.
[Updated 2018 guidance, designed as a checklist that can be used when considering the support, guidance, management and education framework required for children’s nurses working outside of a designated ward/department.] Freely available online

European Academy of Dermatology and Venereology;2018. Published on 8/5/2018

Epilepsies: diagnosis and management.
National Institute for Health and Care Excellence (NICE);2018. Published on 28/4/2018
**REPORTS**

The following report(s) may be of interest:

**Every Nurse an E-nurse: Insights from a consultation on the digital future of nursing.**
Royal College of Nursing (RCN); 2018.

[This publication presents the detailed findings of a consultation, led by the RCN, into the digital future of nursing. The consultation took place over January and February 2018. The consultation explored 1) ideas for a shared vision of a digitally enabled health and social care service 2) the barriers and enablers to the vision becoming a reality and 3) examples of how data, information, knowledge and technology are already bringing that vision to life.] *Freely available online*

**Bercow: Ten Years On: An independent review of provision for children and young people with speech, language and communication needs in England.**
I CAN / Royal College of Speech and Language Therapists (RCSLT); 2018. Published on 17/5/2018

**Child leukaemia linked to reduced exposure to germs.**
NHS Choices - Behind The Headlines; 2018. Published on 23/5/2018

A review has presented the hypothesis that the most common form of child leukaemia (acute lymphoblastic leukaemia, or ALL) may be caused by a 3-stage process: an initial genetic mutation that occurs when the child is still in the womb; reduced exposure to infection in the first few years of life resulting in the immune system not developing fully; in those children with both of these events, a subsequent infection triggering other genetic changes that lead to ALL

**Family therapy for adolescent self-harm: SHIFT trial says it doesn’t reduce hospital visits and isn’t cost-effective.**
The Mental Elf; 2018.

[The SHIFT trial explored the effectiveness of systemic family therapy versus treatment as usual for young people after self-harm.] *Freely available online*

**Lorazepam confirmed as first-line treatment for stopping prolonged seizures in children.**
NIHR Dissemination Centre; 2018. Published on 30/4/2018

NIHR Signal. Intravenous lorazepam is as effective as intravenous diazepam for stopping children’s tonic-clonic seizures in hospital. Lorazepam also results in fewer breathing problems than diazepam.

**WEBSITES**

The following website(s) may be of interest:

- **BestBets:** [www.bestbets.org](http://www.bestbets.org)
- **British National Formulary (BNF):** [https://bnf.nice.org.uk/](https://bnf.nice.org.uk/)
- **British National Formulary (BNFC):** [https://bnfc.nice.org.uk/](https://bnfc.nice.org.uk/)
- **British Association of General Paediatrics:** [www.bagp.org.uk](http://www.bagp.org.uk)
- **Independent Nurse:** [http://www.independentnurse.co.uk/register/](http://www.independentnurse.co.uk/register/) (free copies)
- **Royal College of Paediatrics and Child Health:** [www.rcpch.ac.uk](http://www.rcpch.ac.uk)
- **The Royal Marsden Manual of Clinical Procedures:** [Click for access (NHS Athens Required)](http://www.cdc.gov/zika)
BMJ Evidence Updates: https://plus.mcmaster.ca/EvidenceAlerts/
Children, Families and Maternity e-bulletin:
Journal Table of Contents (JToCs): www.journaltocs.ac.uk
National Child and Maternal Health Intelligence Network: http://www.chimat.org.uk/default.aspx
http://www.cdc.gov/zika

Topic: Functional abdominal pain in children
Fiber might reduce pain in children with recurrent abdominal pain (Cochrane Database Syst Rev 2017 Mar 23)

Topic: Atopic dermatitis
Emollients added to bath water do not improve symptoms in children with atopic dermatitis (BMJ 2018 May 3)

Topic: Folate deficiency
United States Preventive Services Task Force recommendation on folic acid for prevention of neural tube defects (JAMA 2017 Jan 10)

Topic: Follicular lymphoma
CHOP plus 131 I tositumomab and CHOP plus rituximab may have similar 5- and 10-year overall survival, but
CHOP plus rituximab may improve 10-year progression-free survival in adults with advanced follicular
lymphoma (J Clin Oncol 2013 Jan 20)

Topic: Beta-thalassemia major and intermedia
LentiGlobin BB305 vector gene therapy reported to reduce or eliminate need for blood transfusions in patients

Topic: Noninvasive positive pressure ventilation (NPPV) in infants and children, Bronchiolitis
High-flow warm humidified oxygen therapy may have lower rates of escalation of care than standard oxygen
therapy in infants < 12 months old with bronchiolitis and hypoxemia (N Engl J Med 2018 Mar 22)

Topic: Breastfeeding
Early limited formula supplementation with feeding syringe before abundant milk production is established
may not adversely affect continued breastfeeding in newborns with pronounced weight loss (≥ 75th percentile
for age) (J Pediatr 2018 May)

ONLINE JOURNALS
(Athens password may be required)

Advances in Neonatal Care  Click to view
Archives of Disease in Childhood - Fetal and Neonatal Edition  Click to view
Infant & Infant Grapevine  Click to view
Journal of Maternal-Fetal & Neonatal Medicine  Click to view
Journal of Obstetric Gynecologic and Neonatal Nursing  Click to view
Neonatology  Click to View
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